## IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Canceled).

Claim 2 (Currently Amended): A method of forming an adhesive, an ink, a polish, a varnish, a pigment paste, a pigment masterbatch, a filler, a sealant, an insulant, or a cosmetic article comprising forming the adhesive, the ink, the polish, the varnish, the pigment paste, the pigment masterbatch, the filler, the sealant, the insulant, or the cosmetic article with a radiation-curable resin, wherein the The use of a radiation-curable resin is obtained by polymer-analogously reacting

- A) at least one ketone-aldehyde resin and/or or
- B) at least one urea-aldehyde resin or

A and B) at least one ketone-aldehyde resin and at least one urea-aldehyde resin, and

C) at least one compound comprising at least one ethylenically unsaturated moiety and at the same time at least one moiety which is reactive toward A), and/or B), or A) and B)

as a main component, base component or additional component in radiation curing coating materials, adhesives, inks, including printing inks, polishes, varnishes, pigment pastes and masterbatches, fillers, sealants and insulants and/or cosmetic articles.

Claim 3 (Currently Amended): The method of claim 2 use of a radiation curable resin as claimed in claim 1 or 2, wherein the radiation curable resin is obtained by polymeranalogously reacting

- A) the at least one ketone-aldehyde resin or and/or
- B) the at least one urea-aldehyde resin or

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the A and B) at least one ketone-aldehyde resin and at least one urea-aldehyde resin and

C) the at least one compound comprising at least one ethylenically unsaturated moiety and at the same time at least one moiety which is reactive toward A), and/or B), or A and B), and at least one further hydroxyl-functionalized polymer.

Claim 4 (Currently Amended): The <u>method of use of a radiation curable resin as</u>

elaimed in claim 3, wherein the at least one further hydroxyl-functionalized polymer is

selected from the group consisting of at least one polyether, at least one polyester, at least one

polyacrylate, and mixtures thereof polyethers, polyesters and/or polyacrylate are contained as

further hydroxy-functional polymers.

Claim 5 (Currently Amended): The use of a The method of claim 3, wherein radiation curable resin as claimed in claim 3 or 4, wherein mixtures of the further polymers with the ketone aldehyde resins A) and/or urea aldehyde resins B) the at least one ketone-aldehyde resin A), the at least one urea-aldehyde resin B), or A) and B) are reacted polymer-analogously with the component at least one compound C).

Claim 6 (Currently Amended): The <u>method of claim 3</u> use of a radiation curable resin as claimed in claim 3 to 5, wherein, first, of all adducts of the at least one the ketone-aldehyde resins resin A), and/or the at least one urea-aldehyde resins resin B), or the at least one ketone-aldehyde resin A) and the at least one urea-aldehyde resin B), with the at least one further hydroxyl-functionalized polymer polymers, are prepared with using suitable di- and triisocyanates, are prepared, and these adducts are then reacted polymer-analogously with emponent the at least compound C).

Claim 7 (Currently Amended): The method of claim 2, wherein the polymeranalogously reacting comprises the at least one ketone-aldehyde resin A) The use of a
radiation curable resin as claimed in at least one of the preceding claims, and wherein C-Hacidic ketones are used in the at least one ketone-aldehyde resin A) C-H-acidic ketones.

Claim 8 (Currently Amended): The method of claim 2, wherein the polymeranalogously reacting comprises the at least one ketone-aldheyde resin A), and wherein at
least one ketone selected from the group consisting of The use of a radiation-curable resin as
claimed in at least one of the preceding claims, wherein ketones selected from acetone,
acetophenone, methyl ethyl ketone, tert-butyl methyl ketone, heptan-2-one, pentan-3-one,
methyl isobutyl ketone, cyclopentanone, cyclododecanone, mixtures of 2,2,4- and
2,4,4-trimethylcyclopentanone, cycloheptanone, cyclooctanone, and cyclohexanone, and
mixtures thereof, is used as a starting material in the at least one ketone-aldehyde resin A) are
used as starting compounds, alone or in mixtures, in the ketone-aldehyde resins of component
A).

Claim 9 (Currently Amended): The method of claim 2, wherein the polymeranalogously reacting comprises the at least one ketone-aldehyde resin A), and wherein at
least one The use of a radiation-curable resin as claimed in at least one of the preceding
elaims, wherein alkyl-substituted eyelohexanones having cyclohexanone comprising one or
more alkyl radicals containing comprising in total 1 to 8 carbon atoms is used in the at least
one ketone-aldehyde resin A), individually or in a mixture, are used in the ketone-aldehyde
resins of component A).

Claim 10 (Currently Amended): The method of claim 9 The use of a radiation curable resin as claimed in claim 9, wherein the polymer-analogously reacting comprises the at least one ketone-aldehyde resin A), and wherein at least one ketone selected from the group consisting of 4-tert-amylcyclohexanone, 2-sec-butylcyclohexanone, 2-tert-butylcyclohexanone, 4-tert-butylcyclohexanone, 2-methylcyclohexanone, and 3,3,5-trimethylcyclohexanone, and mixtures thereof, is used in the at least one ketone-aldehyde resin are used in the ketone-aldehyde resins of component A).

Claim 11 (Currently Amended): The method of claim 2, wherein the polymeranalogously reacting comprises the at least one ketone-aldehyde resin A) The use of a
radiation-curable resin as claimed in at least one of the preceding claims, and wherein at least
one ketone selected from the group consisting of acetophenone, cyclohexanone, 4-tertbutylcyclohexanone, 3,3,5-trimethylcyclohexanone, and mixtures thereof, is
used in the at least one ketone-aldehyde resin A) alone or in a mixture, are used in
eomponent A).

Claim 12 (Currently Amended): The method of claim 2, wherein the polymeranalogously reacting comprises the at least one ketone-aldehyde resin A) The use of a
radiation curable resin as claimed in at least one of the preceding claims, and wherein at least
one aldehyde selected from the group consisting of formaldehyde, acetaldehyde,
n-butyraldehyde, and/or isobutyraldehyde, valeraldehyde, and dodecanal, and mixtures
thereof, is used as an aldehyde component in the at least one ketone-aldehyde resin A) alone
or in mixtures, are used as aldehyde component of the ketone-aldehyde resins in
eomponent A).

Claim 13 (Currently Amended): The method of claim 2, wherein the polymeranalogously reacting comprises the at least one ketone-aldehyde resin A) The use of a
radiation curable resin as claimed in claim 12, and wherein at least one molecule selected
from the group consisting of formaldehyde, and/or paraformaldehyde, and/or trioxane, and
mixtures thereof, is used as the aldehyde component of the at least one ketone-aldehyde resin
A) are used as aldehyde component of the ketone-aldehyde resins in component A).

Claim 14 (Currently Amended): The method of claim 2, wherein the polymeranalogously reacting comprises the at least one ketone-aldehyde resin A), The use of a
radiation curable resin as claimed in claim 1, 2 or 3, and wherein at least one ketone selected
from the group consisting of resin formed from acetophenone, cyclohexanone, 4-tertbutylcyclohexanone, 3,3,5-trimethylcyclohexanone, and heptanone, and mixtures thereof,
alone or in a mixture, and formaldehyde (component A) is used are used as the ketone
component and the aldehyde component of the at least one ketone-aldehyde resin A).

Claim 15 (Currently Amended): The method of claim 2, wherein the polymer-analogously reacting comprises the at least one urea-aldehyde resin B) use of a radiation-eurable resin as claimed in any one of the preceding claims, and wherein [[as]] the at least one urea-aldehyde resin component B) use is made of comprises urea-aldehyde resins prepared using from a urea of the general formula (I)

$$\begin{array}{c|c} X & & & \\ \hline \\ H_2N & & & \\ N & & \\$$

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in which wherein X is oxygen or sulfur, A is an alkylene radical, and n is from 0 to 3, with and

from 1.9 (n + 1) to 2.2 (n + 1) mol of an aldehyde of the general formula (ii)

(ii) 
$$R_1$$
  $CH$   $C$ 

in which wherein  $R_1$  and  $R_2$  are hydrocarbon radicals each having comprising up to 20 carbon atoms.

or from formaldehyde are used,

or from 1.9 (n + 1) to 2.2 (n + 1) mol of an aldehyde of the general formula (ii)

$$\begin{array}{c} R_1 \\ CH - C \\ R_2 \\ H \end{array}$$

wherein  $R_1$  and  $R_2$  are hydrocarbon radicals each comprising up to 20 carbon atoms, and formaldehyde.

Claim 16 (Currently Amended): The method of claim 2, wherein the polymeranalogously reacting comprises the at least one urea-aldehyde resin B), and wherein the at
least one urea-aldehyde resin B) is prepared from at least one molecule selected from the
group consisting of use of a radiation curable resin as claimed in any one of the preceding
elaims, wherein urea-aldehyde resins prepared using urea and urea, thiourea,
methylenediurea, ethylenediurea, tetramethylenediurea, and/or hexamethylenediurea, and
[[or]] mixtures thereof are used as component B).

Claim 17 (Currently Amended): The method of claim 2, wherein the polymeranalogously reacting comprises the at least one urea-aldehyde resin B) use of a radiationcurable resin as claimed in any one of the preceding claims, and wherein the at least one ureaaldehyde resin B) is prepared from at least one aldehyde selected from the group consisting
of urea-aldehyde resins prepared using isobutyraldehyde, formaldehyde, 2-methylpentanal,
2-ethylhexanal, and 2-phenylpropanal, and mixtures thereof or mixtures thereof are used as
component B).

Claim 18 (Currently Amended): The method of claim 2, wherein the polymeranalogously reacting comprises the at least one urea-aldehyde resin B, and use of a radiation-eurable resin as claimed in any one of the preceding claims, wherein the at least one urea-aldehyde resin B comprises, in polymerized form, monomers of urea-aldehyde resins prepared using urea, isobutyraldehyde, and formaldehyde are used as component B).

Claim 19 (Currently Amended): The method of claim 2 use of a radiation curable resin as claimed in at least one of the preceding claims, wherein the at least one compound C) comprises maleic acid is used as component C).

Claim 20 (Currently Amended): The <u>method of claim 2</u> use of a radiation-curable resin as claimed in at least one of the preceding claims, wherein the at least one compound C) comprises (meth)acrylic acid and/or derivatives are used as component C).

Claim 21 (Currently Amended): The method of claim 2, The use of a radiationeurable resin as claimed in claim 20, wherein the at least one compound C) comprises (meth)acryloyl chloride, glycidyl (meth)acrylate, (meth)acrylic acid, and/or the low molecular mass alkyl esters thereof, and/or anhydrides thereof, or mixtures of these compounds alone or in a mixture, are used as component C).

Claim 22 (Currently Amended): The method of claim 2, wherein the at least one compound C) comprises at least one compound selected from the group consisting of The use of a radiation curable resin as claimed in at least one of the preceding claims, wherein isocyanates which possess an ethylenically unsaturated moiety, preferably (meth)acryoyl isocyanate, α,α-dimethyl-3-isopropenylbenzyl isocyanate, (meth)acryloylalkyl isocyanate with alkyl spacers possessing 1 to 12, preferably 2 to 8, more preferably 2 to 6 carbon atoms, preferably methacryloylethyl isocyanate, and/or methacryloylbutyl isocyanate, and mixtures thereof are used as component C).

Claim 23 (Currently Amended): The method of claim 2, wherein the at least one compound C) comprises at least one moiety selected from the group consisting of The use of a radiation-curable resin as claimed in at least one of the preceding claims, wherein reaction products of at least one hydroxyalkyl (meth)acrylates (meth)acrylate-whose comprising an alkyl spacers possess spacer comprising 1 to 12, preferably 2 to 8, more preferably 2 to 6 carbon atoms, at least one diisocyanate, at least one polyisocyanate, and combinations thereof with diisocyanates and/or polyisocyanates are used as component C).

Claim 24 (Currently Amended): The method of claim 23, wherein the at least one compound C) comprises at least one diisocyanate, and wherein the at least one diisocyanate use of a radiation curable resin as claimed in claim 23, wherein diisocyanates is selected from the group consisting of cyclohexane diisocyanate, methylcyclohexane diisocyanate,

ethylcyclohexane diisocyanate, propylcyclohexane diisocyanate, methyldiethylcyclohexane diisocyanate, phenylene diisocyanate, tolylene diisocyanate, bis(isocyanatophenyl)methane, propane diisocyanate, butane diisocyanate, pentane diisocyanate, hexane diisocyanate such as, for example, hexamethylene diisocyanate (HDI) or 1,5 diisocyanato 2 methylpentane (MPDI), heptane diisocyanate, octane diisocyanate, 1,6-diisocyanato-2,4,4-trimethylhexane, 1,6-diisocyanato-2,2,4-trimethylhexane (TMDI), 4-isocyanatomethyloctane 1,8-diisocyanate (TIN), decane di-isocyanate, and decane-triisocyanate, undecane di-isocyanate, and undecane triisocyanate, dodecane di-isocyanate, and dodecane tri-isocyanate, triisocyanates, isophorone diisocyanate (IPDI), bis(isocyanatomethylcyclohexyl)methane (H<sub>12</sub>MDI), isocyanatomethylmethylcyclohexyl isocyanate, 2,5(2,6)-bis(isocyanatomethyl)bicyclo-[2.2.1]heptane (NBDI), 1,3-bis(isocyanatomethyl)cyclohexane (1,3-H<sub>6</sub>-XDI), 1,4-bis(isocyanatomethyl)cyclohexane (1,4-H<sub>6</sub>-XDI), and mixtures thereof alone or in mixtures, are used.

Claim 25 (Currently Amended): The method of claim 23, wherein the at least one compound C) comprises at least one polyisocyanate, and wherein the at least one polyisocyanate is use of a radiation-curable resin as claimed in claim 24, wherein polyisocyanates prepared by trimerizing, allophanatizing, biuretizing, and/or urethaneizing, or a combination thereof, simple diisocyanates are used.

Claim 26 (Currently Amended): The method of claim 2use of a radiation curable resin as claimed in at least one of the preceding claims, wherein the at least one compound C) comprises the reaction products, in a molar ratio of from 1:1 to 1:1.5, preferably 1:1, of hydroxyethyl acrylate, and/or hydroxyethyl methacrylate, or hydroxyethyl acrylate and

hydroxyethyl methacrylate, reacted with isophorone diisocyanate, and/or H<sub>12</sub>MDI, and/or HDI, or a combination thereof are used as component C).

Claim 27 (Currently Amended): The method of claim 2 use of a radiation curable resin as claimed in at least one of the preceding claims, wherein 1 mol of the at least one ketone-aldehyde resin A), and/or the at least one urea-aldehyde resin B), or A) and B), - based on M<sub>n</sub> - and from 0.5 to 15 mol, preferably from 1 to 10 mol, in particular from 2 to 8 mol of the at least one compound C) unsaturated compound are used.

Claims 28-29 (Canceled).

Claim 30 (Currently Amended): The <u>method of claim 2</u> use of a radiation curable resin as claimed in at least one of the preceding claims, wherein further comprising forming the adhesive, the ink, the polish, the varnish, the pigment paste, the pigment masterbatch, the filler, the sealant, the insulant, or the cosmetic article with a material comprising at least one oligomer, at least one polymer, or at least one oligomer and at least one polymers and/or polymers are present.

Claim 31 (Currently Amended): The <u>method of use of a radiation curable resin as</u> elaimed in claim 30, wherein <u>further oligomers and/or polymers the material is</u> selected from the group consisting of polyurethanes, polyesters, polyacrylates, polyolefins, natural resins, epoxy resins, silicone oils, <u>and</u> silicone resins, amine resins, fluoro polymers, <u>and mixtures</u> thereof <u>and derivatives thereof are present, alone or in combination</u>.

Claim 32 (Currently Amended): The <u>method of claim 2, further comprising forming</u> the adhesive, the ink, the polish, the varnish, the insulant, or the cosmetic article with at least one auxiliary and at least one additive use of a radiation curable resin as claimed in at least one of the preceding claims, wherein auxiliaries and additives are present.

Claim 33 (Currently Amended): The <u>method of use of a radiation-curable resin as</u> elaimed in claim 32, wherein the at least one auxiliary and the at least one additive are <u>selected from the group consisting of auxiliaries and additives selected from inhibitors,</u> organic solvents, with or without unsaturated moieties, surface-active substances, oxygen scavengers, and/or-free-radical scavengers, catalysts, light stabilizers, color brighteners, photoinitiators, photosensitizers, thixotropic agents, antiskinning agents, defoamers, dyes, pigments, fillers, and/or dulling agents, and mixtures thereof are present.